Level II

2015 On-Line Practice Test / Answer Calculations

1. & 2. Using the following information determine a net operating income and capitalization rate for the property below.

Potential gross income \$150,000		PGI	
Vacancy and collection loss	7%	Less: V & C Loss - 7%	(10,500)
Operating expenses	\$60,000	EGI	139,500
Mortgage payment (P&I)	\$50,000	Less: Allowable Expenses	(60,000)
Property value	\$800,000	NOI	79,500
1. Net operating income =?			
a) \$150,000	c) \$79,500		
b) \$60,000	d) \$139,500		
2. Capitalization Rate =?			
a) 5.7%	c) 9.9%	Use IRV to calculate Cap Rate,	•
b) 25%	d) 10.1%	property value, \$79,500 / 800,000 = 9.9%	

3. A duplex rents for \$800 per month on the lower floor and \$700 per month on the upper floor. It recently sold for \$162,000. What is the potential gross rent multiplier for this property?

a) 203	<u>c) 108</u>	Use VIF, calculate by dividing the value of \$162,000 by
b) 9	d) 100	the total monthly income of \$1,500

4. An industrial office has a wall height of 14'. It is a par 6, wall type 3 (fire resistant) construction. What if any is the wall hgt. adjustment for this building?

a) -\$1.80	c) \$3.60	
b) \$2.16	d) -\$3.60	The model wall height for industrial office is 12'. The
		wall height adjustement is \$1.08 x $2 = 2.16

5. A building has a net income of \$2,500 per month and it recently sold for \$380,000. What is its capitalization rate?

a) 0.6%	c) 10%	When using IRV it is based upon annual NOI. Take
b) 7.9%	d) 11%	monthly income of $2500 \times 12 = NOI$ of $30,000$ divided
		by sales price of $$380,000 = \text{cap rate of } 7.9\%$.

6, 7 & 8

Building has 40,000 square feet of total area and 5,000 square feet of common area. Market rent for similar bldgs. is \$20 per sq. ft. of net rentable area. Vacancy and collection loss is 6% and operating expenses are 35% of effective gross income.

6. What is the potential gross income?

		Net Leasable Area	35,000
a) \$800,000	c) \$658,000	Market Rent / Sq. Ft.	\$ 20.00
b) \$700,000	d) \$427,700	Total PGI	700000
		Less: V & C of 6%	-42000
7. What is the effective gross in	ncome?		
_		EGI	658000
a) \$800,000	<u>c) \$658,000</u>	Less: Exp Ratio	35%
b) \$700,000	d) \$427,700	Allowable Expenses	230300
		NOI	427700

- 8. What is the net operating income?
 - a) \$800,000 c) \$658,000 b) \$700,000 <u>d) \$427,700</u>
- 9. A building has 8,000 square feet. 2,000 square feet is industrial office. The rest is heavy manufacturing. The walls are type 2 and the PAR is 11. The framing type is fireproof steel. What is the adjusted base rate for this building?

10., 11., & 12. Determine a value for a subject property given the following information:

	Sale 1	Sale 2	Sale 3	Subject
Sale Price	\$95,000	\$89,500	\$82,000	
Date of Sale	24 months ago	18 months ago	18 months ago	
Time Adjustment	\$9,600	\$7,200	\$7,200	
Time Adjusted Sale Price	\$104,600	\$96,700	\$89,200	
Age	\$0	\$3,000	(\$3,000)	12 yrs.
Condition	\$4,500	\$0	\$4,500	Good
Fronts on Lake	(\$3,300)	\$0	\$0	Not waterfront
Floor area (Sq. Ft.)	(\$10,000)	(\$5,000)	\$0	1,500
Garage	\$0	\$900	\$900	Attached
Quality	\$0	\$0	\$4,100	Good
Net Adjustment	(\$8,800)	(\$1,100)	\$6,500	
Adjusted sale price	\$95,800	\$95,600	\$95,700	

Sale #1 sold two years ago for \$95,000. It is 12 years old, has 1,700 square ft., and is in average condition. It is located on the lake. It has a good quality attached garage. The home is also good quality.

Sale #2 sold 18 months ago for \$89,500. It is 14 years old and in good condition. It has 1,600 square feet and is not on the lake. It has a good quality detached garage. The home is also good quality.

Sale #3 sold 18 months ago for \$82,000. It is 10 years old and in average condition. It has 1,500 square feet and is not located on the lake. There is also an average quality detached garage. The home is also average quality.

The following elements are the contributing factors in the value of the properties:

Time: \$400 increase per month Age: \$1,500 per year

Condition: \$4,500 between average and good

Floor area: \$50 per square foot

Location: Lakefront is worth \$3,300

Garage: \$900 less for detached

Quality: \$4,100 between average and good

Quanty: \$1,100 between average and good

10. What is the time adjustment for sale #3?

<u>a) \$7,200</u> c) \$96,000 b) (\$1,100) d) \$100,000

11. What is the net adjustment for sale #2?

a) \$7,200 c) \$96,000 b) (\$1,100) d) \$100,000

	a) \$7,200 b) (\$1,100)	<u>c) \$96,000</u> d) \$100,000				
13. A pa	arking lot is 20.000 sau	uare ft. It is asphalt 2"	over 8" base.	It is grade B-1 and is in M	Martin County, What is	
_	sted base rate for this	_				
				Base rate is \$2.29, add \$	6.36 for addl 3" base. The	
	a) \$1.60	c) \$2.13			115% for B-1 = $$3.05 \times LCM$	
	b) \$1.85	<u>d) \$2.68</u>		of 88% = Adj 1	Base Rate of \$2.68.	
_	_	522,000 and an EGI of the value of the property		nas an overall cap rate of 7	7.9 %. If the land to	
	a) \$522,000	c) \$8,607,590		This is an IRV problem.	Γake NOI of \$522,000 divided	
	b) \$6,607,600	d) None of th		-	Rate of 7.9%	
15. A fa	st food restaurant was	s built in 1990. It is in a	verage condit	ion. How much depreciat	ion should it get?	
			J	•	<u> </u>	
	<u>a) 75%</u>	c) 25%			se Table F-2 in Appendix F to 26 years. Go to Table F-8 to	
	b) 45%	d) 20%			or which is 75%.	
	<i>b)</i> 12 / 0	u) 20 / 0				
16. Calc	culate the median using	g the following assessme	ent ratios: .98	2, 1.06, 1.02, .993 and 1.03		
	a) 1.02 c) 0.993		Rank the ratios low to high, the middle ratio is			
	<u>a) 1.02</u> b) 1.000	d) 0.982		median which is 1.02		
followin	g questions.	·		nation. Using this informa		
Sales Sale #1	<u>A/V</u>	Sale Price	Ratio 1.166	Median	Abs Dev	
Sale #1 Sale #2	\$103,200	\$88,500	1.166	0.984	0.182	
Sale #2 Sale #3	\$99,500	\$99,100	1.004	0.984	0.02	
Sale #3	\$127,400 \$118,100	\$134,000 \$120,000	0.951 0.984	0.984 0.984	0.033	
Sale #5	\$113,100	\$120,000	0.885	0.984	0.099	
Total	\$ 561,100	\$ 569,100	0.002	0.504	0.055	
	+	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Avg Abs Dev. $= .067$	
17. Using	g the above informatio	on calculate the Median	•			
	<u>a) .0984</u>	c) 0.92		Calculated by ranking	g the 5 ratios from low to	
	b) 1.012	d) 1.031		high. The middle r	atio is Median of .984.	
18. Using	g the above informatio	on calculate the Weight	ed Mean.			
					the total AV all sales of	
a) 1.017 c) 1.019		\$561,100 divided by total sale price of all 5 sales of				
	b) 0.952	<u>d) 0.986</u>		\$56	9,100.	
19. Usin	ng the above information	on calculate the Mean.				
	a) 0.952	c) 1.019		Calculated by adding a	all five ratios together and	
	b) 0.998	d) 0.986			y the 5 sales.	
		,				

12. What is the indicated value of the subject property, rounded to the nearest \$1,000?

20. Using the above informatio	n calculate the PRD.		
a) 0.952b) 1.053	<u>c) 1.012</u> d) 0.986	Formula is the Mean divided by Weighted Mean. $.998 / .986 = 1.012$	
21. Using the above informatio	n calculate the COD.		
a) 0.984	c) 8.32	Formulas is avg abs dev / median x 100067 /	
<u>b) 6.809</u>	d) 1.051	$.984 \times 100 = 6.809$	
22. & 23 A hotel has 22,000 so	quare feet and has 50 rooms. T	The hotel is a center hall configuration.	
22. Using the above information	n what is the average unit size o	of each hotel room?	
a) 525 sq. ft.	c) 300 sq. ft.	Hotel sq. ft. / # of rooms = avg. unit size.	
<u>b) 440 sq. ft.</u>	d) 485 sq. ft.	22,000 / 50 = 440	
23. Using the above information	n what is the amount of unit fir	nish adjustment?	
<u>a) \$2.81</u>	c) \$5.25	Refer to unit cost adjustment schedule / motels /	
b) \$8.25	d) \$6.00	hotels center hall configuration.	
24. You are pricing the first floois the amount to be shown on the		ore which does \underline{not} have central air conditioning. What s adjustment ?	
a) - \$ 4.71	c) + \$4.10	Refer to Schedule C. The HVAC rate is \$10.43,	
<u>a) - \$ 4.71</u> b) - \$ 2.05	d) - \$ 4.55	subtract the heat only adj. of \$5.72. Adj. to revmove AC is - \$4.71.	
25. What BPA adjustment factor the story height of 21?	or you would apply to a 21 stor	y building, in which the basement level is included in	
a) 109	c) 112	Go to Schedule B. The total story height after subtracting basement level is 20. BPA Factor is	
b) 100	d) 108	108	
restaurant was built in Martin It has a finished open basement	County in 1990. It contains 2,5 of 1,600 square feet, used for 5, in Average condition. The part	ns #26, #27, & #28. A Burger Queen fast food 500 square feet, and is a Grade (B), in Good condition. storage. There is an asphalt parking lot (2" over 5") of rking lot was constructed the same year as the building.	
<u>a) \$109,320</u>	c) \$65,210	See attached PRC	
b) \$28,900	d) \$38,960		
27. What is the total true tax in	provement value of the fast fo	od restaurant & paving?	
a) \$297,800	c) \$352,400	See attached PRC	
b) \$128,800	<u>d) \$142,600</u>		
28. What is the true tax value o	f the asphalt paving?		
a) \$16,300	c) \$5,000	See attached PRC	
b) \$9,230	d) \$6,040	222 2000000 7 200	

Problem #9 Answer:

 Industrial Office
 2000 / 8000 = 25%

 Heavy Mfg.
 6000 / 8000 = 75%

	Industrial Office	Heavy Mfg.
Base Rate	\$ 129.31	\$ 117.16
PAR Adjustment	\$ 8.99	\$ 9.74
Adjusted Rate	\$ 138.30	\$ 126.90
Fireproof Steel Adj.	\$ 11.75	\$ 12.84
Adjusted Base Rate	\$ 150.05	\$ 139.74
	25%	75%
Weighted Base Rate	\$ 37.51	\$ 104.81

Answer: Add the \$37.51 + \$104.81 = \$142.32